

(19) World Intellectual Property  
Organization  
International Bureau



(43) International Publication Date  
24 March 2005 (24.03.2005)

PCT

(10) International Publication Number  
**WO 2005/025655 A1**

(51) International Patent Classification<sup>7</sup>: **A61M 15/00**

(21) International Application Number:  
PCT/GB2004/003928

(22) International Filing Date:  
15 September 2004 (15.09.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:  
0321610.8 15 September 2003 (15.09.2003) GB

(71) Applicant (for all designated States except US): **VECTURA LIMITED** [GB/GB]; 1 Prospect Way, Chippenham, Wiltshire SN14 6FH (GB).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **SARKAR,**

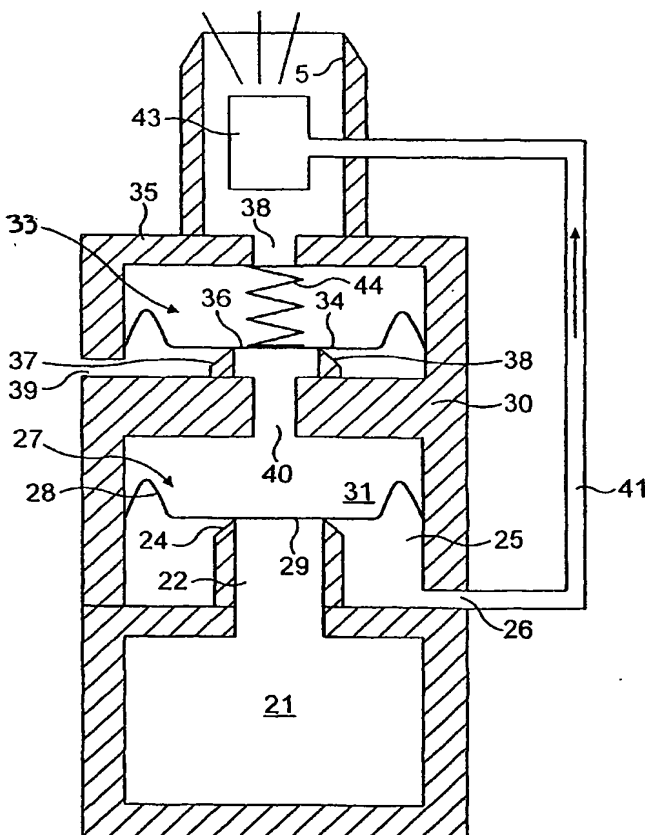
Matthew, Neil [GB/GB]; 33 Linden Close, Cambridge, Cambridgeshire CB4 3JU (GB). **PULLEN, Carl, Henry** [GB/GB]; 5 The Stables, Rooks Street, Cottenham, Cambridgeshire CB4 8QT (GB). **NEWTON, Michael, Edgar** [GB/GB]; 2 Croft Cottages, The Street, Wattisfield, Diss, Norfolk IP22 1NS (GB). **EASON, Stephen, William** [GB/GB]; The Priory, Half Moon Lane, Redgrave, Diss, Norfolk IP22 1RX (GB).

(74) Agents: **GREY, Ian** et al.; Venner, Shipley & Co., 20 Little Britain, London EC1A 7DH (GB).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM,

[Continued on next page]

(54) Title: **DRY POWDER INHALER**



(57) Abstract: A dry powder inhaler for delivering a dose of medicament for inhalation by a user, including a drug entrainment device and a valve actuatable by a user to cause pressurised gas to flow through a dose of medicament disposed in the drug entrainment device to entrain said dose in the gas, the valve comprising a valve member (28) configured such that, in a first mode, pressurised gas biases the valve member (28) into an open state to allow the flow of gas through the valve and, in a second mode, pressurised gas biases the valve member (28) into a closed state to prevent the flow of gas through the valve.



TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) **Designated States** (*unless otherwise indicated, for every kind of regional protection available*): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

**Published:**

— with international search report

— before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

*For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.*